Question Paper
ANMC Mock Test Class 7 - Rational Number (Paper 1)

Exam ID : TEST/2024/01/05134226 Report Generation Date : 3/26/2024 3:00:15 PM

Q1: The sum of a rational number and its reciprocal is 26/5. Find the number.

A: 5 or 1/5

B: 4 or 1/5

C: -5 or 1/5

D: 5 or -1/5

Answer: A

Q2: The ratio between a two-digit number and the sum of the digit of that number is 3 : 1. If the digit in the unit's place is 5 more than the digit in the ten's place, what is the number?

A: 38

B: 27

C: 16

D: 49

Answer: B

Q3: Which of the following rational numbers lies between 3/5 and 7/9?

A: 2/3

B: 4/5

C: 5/9

D: 8/15

Answer: A

Q4: Evaluate the following: (2/3) + (3/4 ÷ 6/7 ÷ 21/8)

A: 59/48

B: 1

C: 12/49

D: 5/3

Answer: B

Q5: Find the value of: (8/3)×[-9/2 + 7/6]

A: 8 8/9

B: -(8 7/9)

C: 8 7/9

D: -(8 8/9)

Answer: D

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Q6: Find the multiplicative inverse of: 13/8 × 1/5 + 2

A: -40/93

B: 40/93

C: 41/93

D: -41/93

Answer: B

Q7: Simplify the following: (15)5/3× (15)4/3 ÷ (5)3

A: 32

B: 152

C: 33

D: 53

Answer: C

Q8: Find the additive inverse of: [9/4 × 1/3 + 7]

A: 4/31

B: 31/4

C: -31/4

D: -4/31

Answer: C

Q9: P and Q are two positive integers such that PQ = 96. Which of the following cannot be the value of P + Q?

A: 97

B: 22

C: 21

D: 20

Answer: C

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Q10: A student was asked to divide a number by 8 and add 16 to the quotient. He, however, first added 16 to the number and then divided it by 8, getting 126 as the answer. The correct answer should have been?

A: 142

B: 140

C: 118

D: 136

Answer: B

Q11: When 295 is added to 5A4, the result is 8B9. 8B9 is divisible by 3. What is the largest possible value of A?

A: 8

B: 5

C: 9

D: 6

Answer: A

Q12: Sum of two rational numbers is 9/5. If one of them is -3/7, then find the other rational number.

A: 48/35

B: 43/35

C: 78/35

D: 71/35

Answer: C

Q13: Find the multiplicative inverse of: -7/9 × 5/3

A: 27/35

B: 35/27

C: -35/27

D: -27/35

Answer: D

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Q14: Which of the rational numbers 7/9, -5/6, -7/-11 and 11/-20 is the smallest?

A: -7/-11

B: 11/-20

C: 7/9

D: -5/6

Answer: D

Q15: Which of the following forms a pair of equivalent rational numbers?

A: 28/35 and 36/45

B: 36/42 and 30/36

C: 40/45 and -35/40

D: -27/36 and -18/27

Answer: A

Q16: Simplify: (13/9 × -15/2) + (7/3 × 8/5) + (3/5 × 1/3)

A: 65/9

B: -69/10

C: 81/10

D: -73/9

Answer: B

Q17: Express 1.242424..... in the form p/q, where p and q are integers and q is not equal to zero.

A: 31/25

B: 5/4

C: 41/33

D: 37/30

Answer: C

Q18: Simplify the following: (51/2 + 111/2)2 + (51/2 - 111/2)2

A: 32

B: 25

C: 34

D: 30

Answer: A

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Q19: Rationalize the denominator: 5/[8 + 3(6)1/2]

A: [8 - 3(6)1/2]/5

B: [8 - 3(6)1/2]/3

C: [8 - 3(6)1/2]/2

D: [8 - 3(6)1/2]

Answer: C

Q20: If x = 1 - 21/2 then the value of x3 - 1/x3 is:

A: 8

B: 27

C: 14

D: 10

Answer: C

Q21: Simplify the following: (81/2 + 141/2)2 + (81/2 - 141/2)2

A: 50

B: 64

C: 28

D: 44

Answer: D

Q22: Which of the following rational numbers lies between 6/13 and 9/16

A: 23/52

B: 15/26

C: 25/52

D: 25/42

Answer: C

Q23: Vijay decided to do his Science homework a little bit each day. On the first day he did 1/8 of the homework, the second day he completed 1/6 of the homework and the third day he worked 1/2 of the homework. How much of the homework has Vijay completed?

A: 18/25

B: 19/24

C: 17/24

D: 17/25

Answer: B

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Q24: Simplify the following: {(24)7/3 × (24)–4/3} ÷ (2×3)2

A: 4/3

B: 2/3

C: 3/2

D: 3/4

Answer: B

Q25: Find the additive inverse of: {[(16/9) × (5/12)] – 6}

A: 142/27

B: – 142/27

C: 136/27

D: – 136/27

Answer: A

Q26: Neeraj earns Rs. 80000 per month. He spends 1/5 of his income on food; 7/12 of the remainder on house rent and 7/10 of the remainder on the education of children. How much money is still left with him?

A: Rs. 8200

B: Rs. 7800

C: Rs. 9000

D: Rs. 8000

Answer: D

Q27: Express 1.565656..... in the form p/q, where p and q are integers and q is not equal to 0.

A: 156/99

B: 154/99

C: 157/99

D: 155/99

Answer: D

Q28: Which of the following rational numbers lies between 8/9 and 17/12

A: 29/36

B: 3/2

C: 11/9

D: 30/19

Answer: C

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Q29: What number should be subtracted from 28/13 to get –5/21?

A: – 653/273

B: – 648/273

C: 648/273

D: 653/273

Answer: D

Q30: The value of (336/74) ÷ (48/37) is:

A: 3/2

B: 5/2

C: 7/2

D: 9/2

Answer: C